L9	1	1 and (707/6).ccls. and @ad<"19991212"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:07
L10	36	3 and @ad<"19991212"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:00
L11	22	10 and relation$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:59
L12	1	10 and relation$3 and (continuous same attribut$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:08
L13	1	10 and relation$3 and (discret$3 same attribut$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:08
L14	117	2 and (rule with induct$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:59
L15	26	14 and dimension$2 and @ad<"19991212"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:38
L16	16	15 and continuous	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:00

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L3	128	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:03
L4	0	3 and (continous same attribut$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:04
L5	89	3 and relation$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:07
L6	9	5 and (cost same attribut$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:04
L7	3	6 and @ad<"19991212"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:05
L8	22	5 and @ad<"19991212"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 14:06

L17	10	15 and continuous and discret$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:01
L18	6	15 and continuous and discret$3 and relation$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:31
L19	2	("6055539").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:36
L20	2	("5987468").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:36
L21	2	("6563952").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:37
L22	6	14 and dimension$2 and @ad<"19991212" and sort$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/10/19 15:38

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1 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

2 External memory algorithms and data structures: dealing with **massive data**

Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(828.46 KB) Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

3 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(636.24 KB) terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

4 Learning with mixtures of trees

Marina Meila, Michael I. Jordan

September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available: pdf(400.02 KB) Additional Information: full citation, abstract, citings

This paper describes the mixtures-of-trees model, a probabilistic model for discrete multidimensional domains. Mixtures-of-trees generalize the probabilistic trees of Chow and Liu (1968) in a different and complementary direction to that of Bayesian networks. We present efficient algorithms for learning mixtures-of-trees models in maximum likelihood and Bayesian frameworks. We also discuss additional efficiencies that can be obtained when data are "sparse," and we present data structures and alg ...

5 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown

December 2000 **Computational Linguistics**, Volume 26 Issue 4

Publisher: MIT Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references

Publisher Site

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...

6 Searching in metric spaces

Edgar Chávez, Gonzalo Navarro, Ricardo Baeza-Yates, José Luis Marroquín

September 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 3

Publisher: ACM Press

Full text available: pdf(916.04 KB) Additional Information: full citation, abstract, references, citings, index terms

The problem of searching the elements of a set that are close to a given query element under some similarity criterion has a vast number of applications in many branches of computer science, from pattern recognition to textual and multimedia information retrieval. We are interested in the rather general case where the similarity criterion defines a metric space, instead of the more restricted case of a vector space. Many solutions have been proposed in different areas, in many cases without cros ...

Keywords: Curse of dimensionality, nearest neighbors, similarity searching, vector spaces

7 Computer applications in health care (CAHC): Knowledge discovery from doctor-patient relationship

Jesus S. Aguilar-Ruiz, Raquel Costa, Federico Divina

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(195.02 KB) Additional Information: full citation, abstract, references, index terms

The relationship between doctors and their patients is gaining more and more importance in the health care providing. It determines the compliance of the treatment and a part of the curative process. In the psychiatry the therapeutic relationship has even more power. Therefore having a general rule that could guide doctors towards a good relation with their patients would be very useful. This paper describes experiments in automated acquisition of such a rule by means of data mining techniques. ...

8 Research track: XRules: an effective structural classifier for XML data

Mohammed J. Zaki, Charu C. Aggarwal

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(228.97 KB) Additional Information: full citation, abstract, references, citings, index terms

XML documents have recently become ubiquitous because of their varied applicability in a number of applications. Classification is an important problem in the data mining domain, but current classification methods for XML documents use IR-based methods in which each document is treated as a bag of words. Such techniques ignore a significant amount of information hidden inside the documents. In this paper we discuss the problem of rule based classification of XML data by using frequent discrimina ...

Keywords: XML/Semi-structured data, classification, tree mining

9 Applications of machine learning and rule induction

Pat Langley, Herbert A. Simon

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Publisher: ACM Press

Full text available: pdf(554.28 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Machine learning is the study of computational methods for improving performance by mechanizing the acquisition of knowledge from experience. Expert performance requires much domain-specific knowledge, and knowledge engineering has produced hundreds of AI expert systems that are now used regularly in industry. Machine learning aims to provide increasing levels of automation in the knowledge engineering process, replacing much time-consuming human activity with automatic tec ...

10 NSF workshop on industrial/academic cooperation in database systems

Mike Carey, Len Seligman

March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, index terms

11 Research track: Mining concept-drifting data streams using ensemble classifiers

Haixun Wang, Wei Fan, Philip S. Yu, Jiawei Han

August 2003 **Proceedings of the ninth ACM SIGKDD international conference on Knowledge discovery and data mining**

Publisher: ACM Press

Full text available: pdf(234.13 KB) Additional Information: full citation, abstract, references, citings, index terms

Recently, mining data streams with concept drifts for actionable insights has become an important and challenging task for a wide range of applications including credit card fraud protection, target marketing, network intrusion detection, etc. Conventional knowledge discovery tools are facing two challenges, the overwhelming volume of the streaming data, and the concept drifts. In this paper, we propose a general framework for mining concept-drifting data streams using weighted ensemble classifi ...

Keywords: classifier, classifier ensemble, concept drift, data streams

12 On randomization in sequential and distributed algorithms

Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Publisher: ACM Press

Full text available: pdf(8.01 MB) Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including:primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

13 Partial match retrieval of multidimensional data

Philippe Flajolet, Claude Puech

April 1986 **Journal of the ACM (JACM)**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: pdf(2.12 MB) Additional Information: full citation, abstract, references, citings, index terms, review

A precise analysis of partial match retrieval of multidimensional data is presented. The structures considered here are multidimensional search trees (k-d-trees) and digital tries (k-d-tries), as well as structures designed for efficient retrieval of information stored on external devices. The methods used include a detailed study of a differential system around a regular singular point in conjunction with suitable contour integration techniques for the ana ...

14 Statistical profile estimation in database systems

Michael V. Mannino, Paicheng Chu, Thomas Sager

September 1988 **ACM Computing Surveys (CSUR)**, Volume 20 Issue 3

Publisher: ACM Press

Full text available: pdf(2.94 MB) Additional Information: full citation, abstract, references, citings, index terms

A statistical profile summarizes the instances of a database. It describes aspects such as the number of tuples, the number of values, the distribution of values, the correlation between value sets, and the distribution of tuples among secondary storage units. Estimation of database profiles is critical in the problems of query optimization, physical database design, and database performance prediction. This paper describes a model of a database of profile, relates this model to estimating ...

15 Special issue on special feature: An introduction to variable and feature selection

Isabelle Guyon, André Elisseeff

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(862.82 KB) Additional Information: full citation, abstract, citings, index terms

Variable and feature selection have become the focus of much research in areas of application for which datasets with tens or hundreds of thousands of variables are available. These areas include text processing of internet documents, gene expression array analysis, and combinatorial chemistry. The objective of variable selection is three-fold: improving the prediction performance of the predictors, providing faster and more cost-effective predictors, and providing a better understanding of the ...

16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 Selectivity estimators for multidimensional range queries over real attributes

Dimitrios Gunopulos, George Kollios, J. Tsotras, Carlotta Domeniconi

April 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(321.96 KB) Additional Information: full citation, abstract

Estimating the selectivity of multidimensional range queries over real valued attributes has significant applications in data exploration and database query optimization. In this paper, we consider the following problem: given a table of *d* attributes whose domain is the real numbers and a query that specifies a range in each dimension, find a good approximation of the number of records in the table that satisfy the query. The simplest approach to tackle this problem is to assume that the ...

18 Probabilistic wavelet synopses

Minos Garofalakis, Phillip B. Gibbons

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(668.62 KB) Additional Information: full citation, abstract, references, index terms

Recent work has demonstrated the effectiveness of the wavelet decomposition in reducing large amounts of data to compact sets of wavelet coefficients (termed "wavelet synopses") that can be used to provide fast and reasonably accurate approximate query answers. A major shortcoming of these existing wavelet techniques is that the quality of the approximate answers they provide varies widely, even for identical queries on nearly identical values in distinct parts of the data. As a result, users ha ...

Keywords: Wavelets, approximate query processing, data synopses, randomized rounding

19 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Publisher: ACM Press

Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

20 Research papers: OLAP: SHIFT-SPLIT: I/O efficient maintenance of wavelet-transformed multidimensional data

Mehrdad Jahangiri, Dimitris Sacharidis, Cyrus Shahabi

June 2005 **Proceedings of the 2005 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available: pdf(561.19 KB) Additional Information: full citation, abstract, references

The Discrete Wavelet Transform is a proven tool for a wide range of database applications. However, despite broad acceptance, some of its properties have not been fully explored and thus not exploited, particularly for two common forms of multidimensional decomposition. We introduce two novel operations for wavelet transformed data, termed SHIFT and SPLIT, based on the properties of wavelet trees, which work directly in the wavelet domain. We demonstrate their significance and usefulness by anal ...

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